

4.2.D. 0801020404.

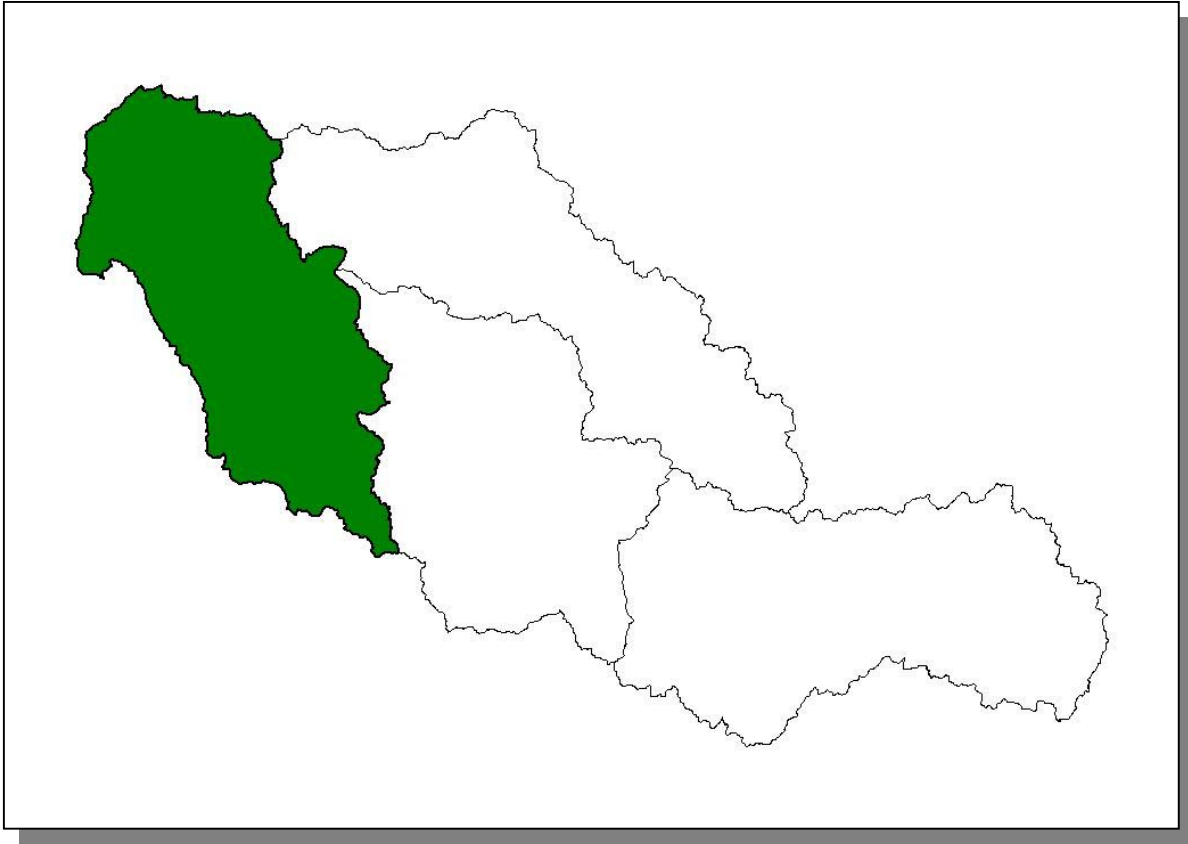


Figure 4-36. Location of Subwatershed 0801020404. All North Fork Forked Deer subwatershed boundaries are shown for reference.

4.2.D.i. General Description.

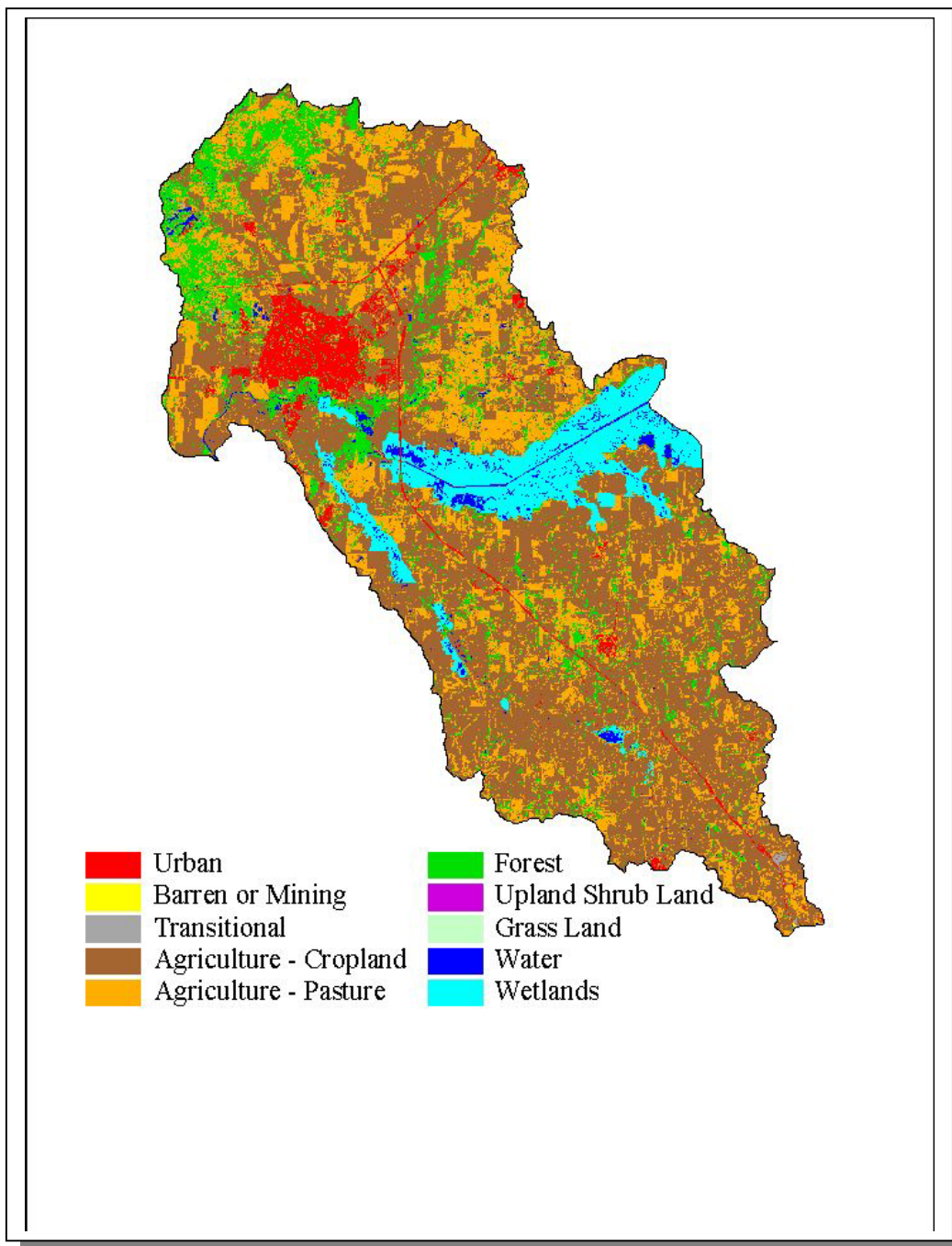


Figure 4-37. Illustration of Land Use Distribution in Subwatershed 0801020404.

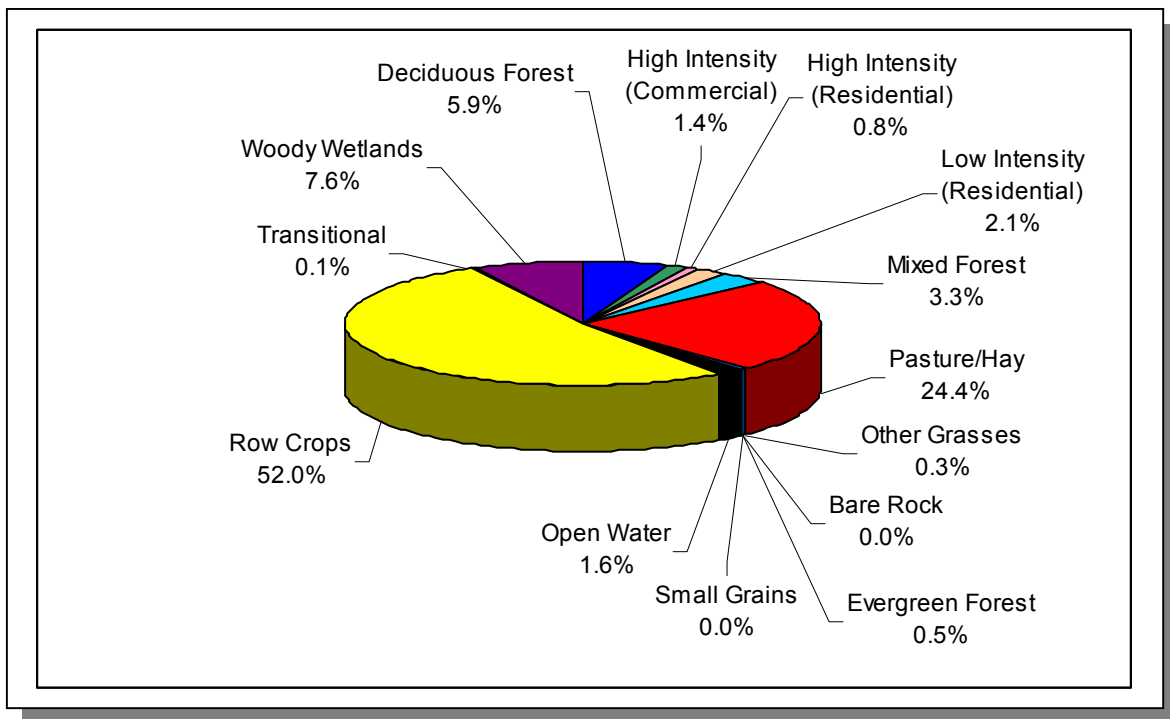


Figure 4-38. Land Use Distribution in Subwatershed 0801020404. More information is provided in NFFD-Appendix IV.

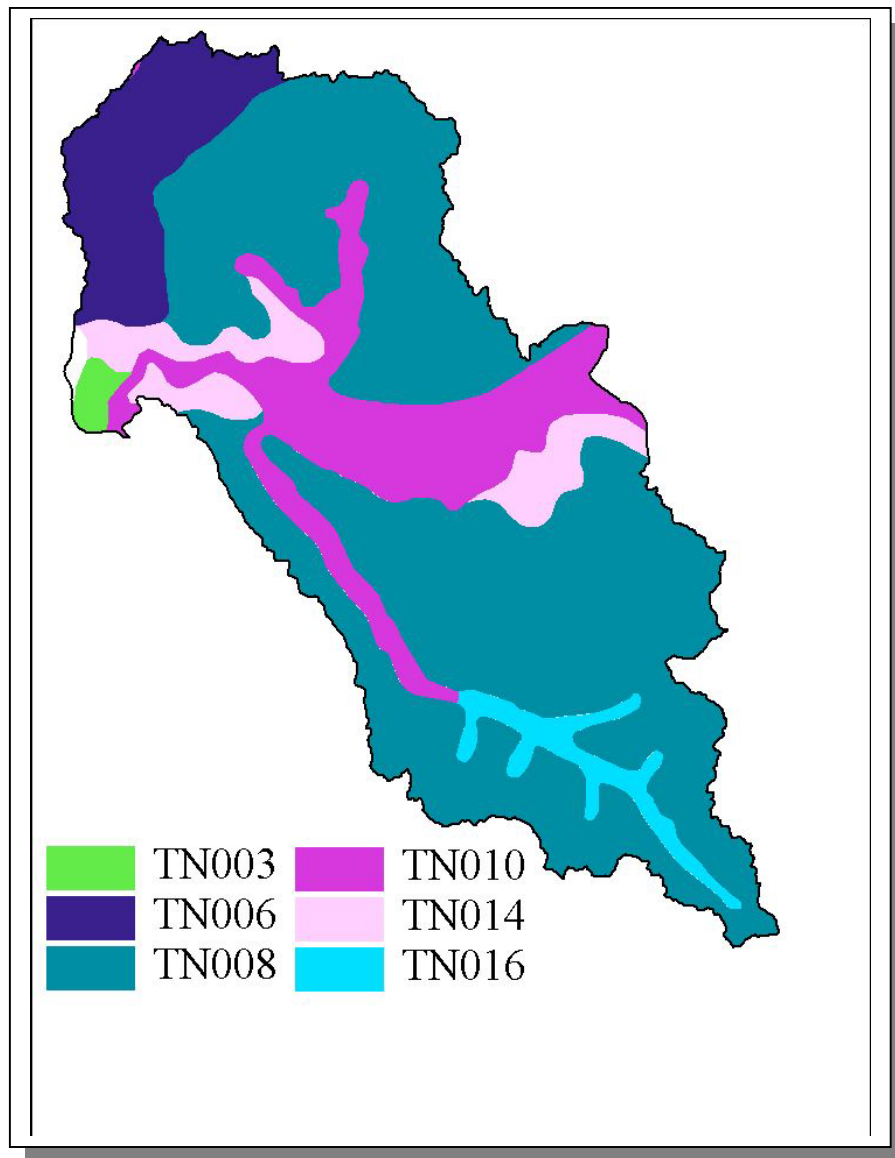


Figure 4-39. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020404.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN003	62.00	C	0.50	6.65	Silty Clay	0.33
TN005	10.00	C	1.79	6.68	Silty Loam	0.41
TN006	0.00	C	1.30	5.42	Silty Loam	0.48
TN008	2.00	C	1.38	5.20	Silty Loam	0.48
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN014	30.00	C	1.30	5.12	Silty Loam	0.47
TN016	0.00	C	1.30	6.47	Silty Loam	0.44

Table 4-26. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020404. More information is provided in NFFD-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		PERCENT CHANGE
	1990	1997 Est.		1990	1997	
Crockett	13,378	13,841	24.84	3,324	3,439	3.5
Dyer	34,854	36,465	30.28	10,555	11,043	4.6
Total	48,232	50, 306		13,879	14,482	4.3

Table 4-27. Population Estimates in Subwatershed 0801020404.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Alamo	Crockett	2,400	1,044	1,001	43	0
Dyersberg	Dyer	16,317	7,041	6,993	48	0
Friendship	Crockett	468	203	196	7	0
Maury City	Crockett	781	318	22	288	8
Newbern	Dyer	2,514	1,052	994	58	0
Total		22,480	9,658	9,206	444	8

Table 4-28. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0801020404.

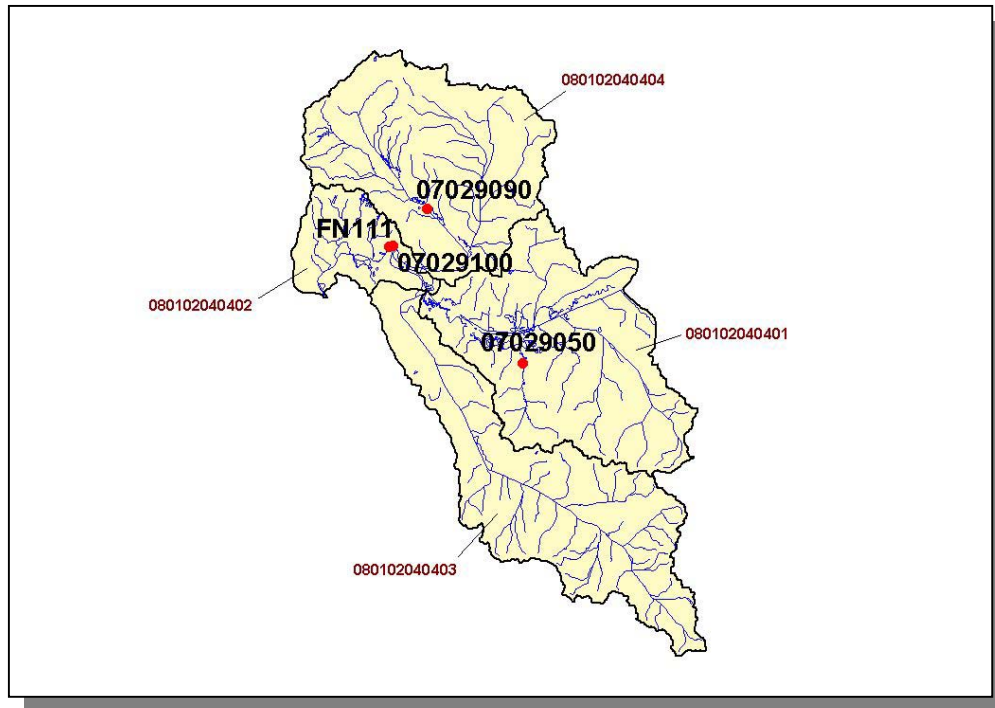


Figure 4-40. Location of Historical Streamflow Data Collection Sites in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

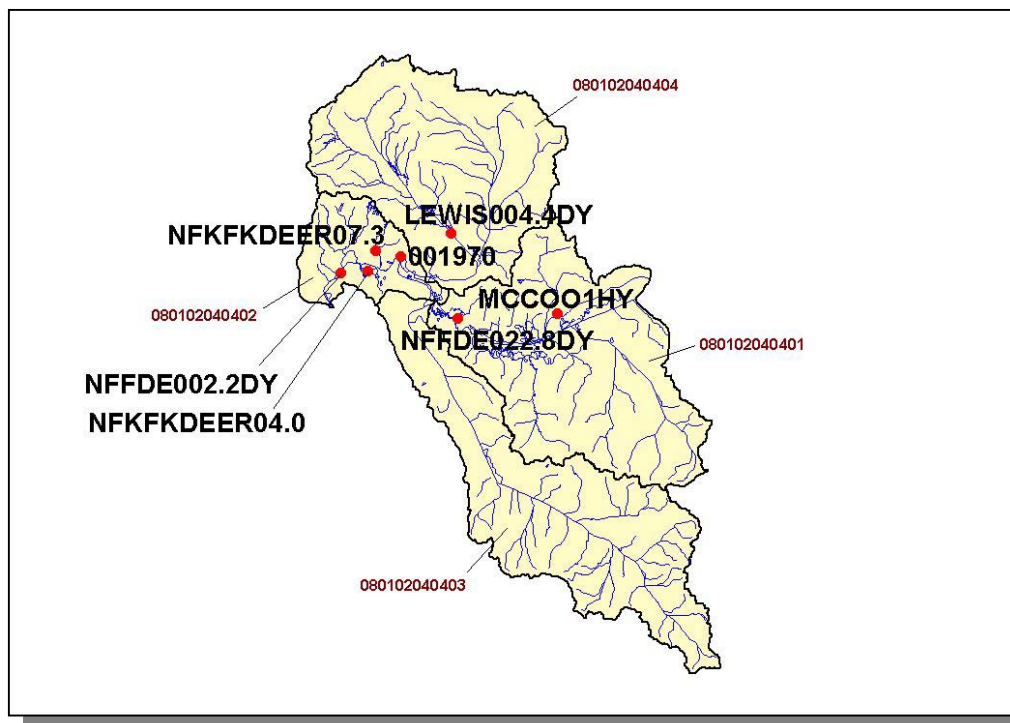


Figure 4-41. Location of STORET Monitoring Sites in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

4.2.D.ii. Point Source Contributions.

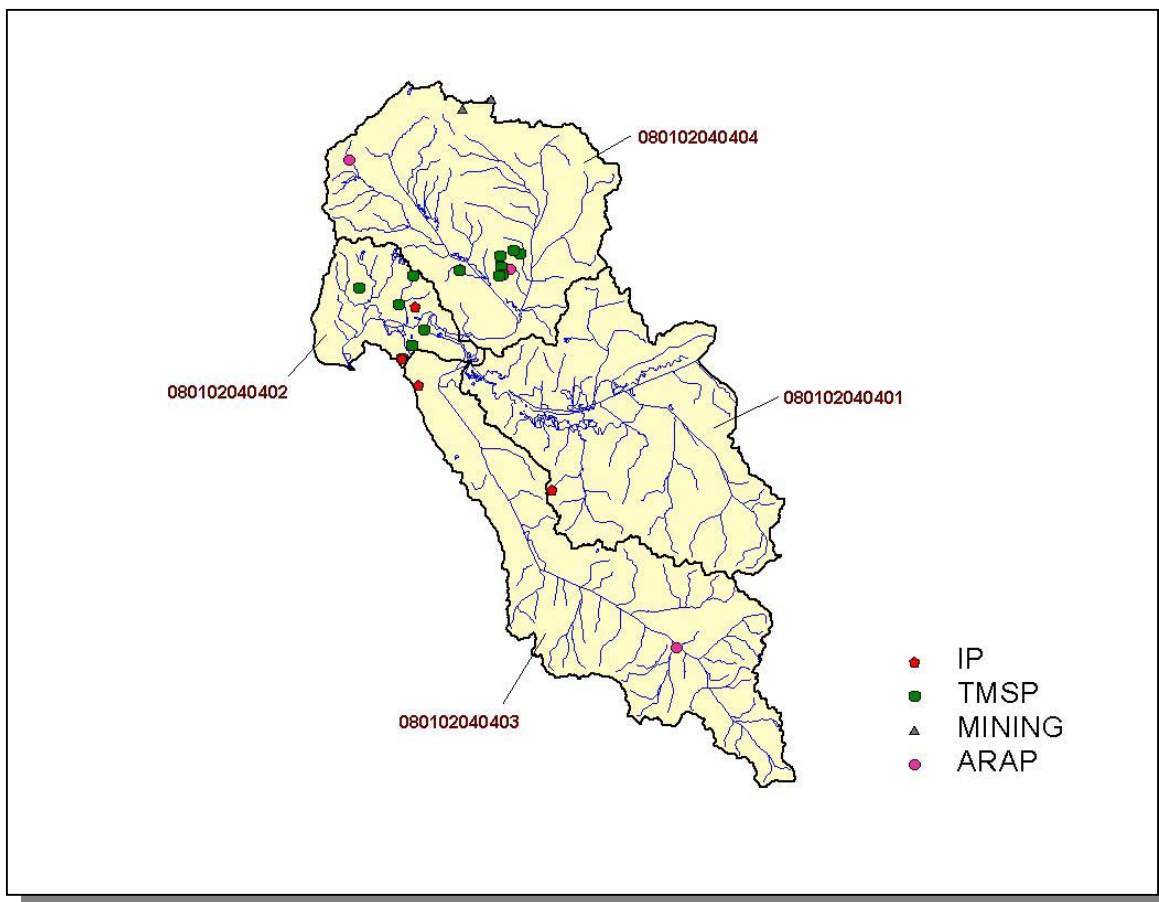


Figure 4-42. Location of Active Point Source Facilities in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in the following figures.

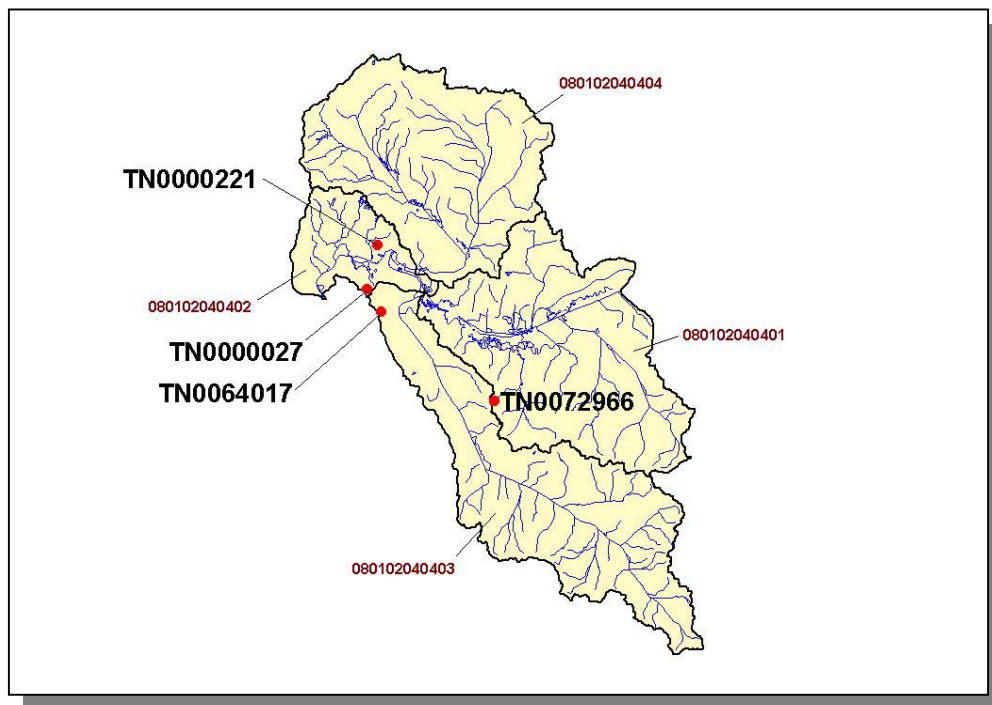


Figure 4-43. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

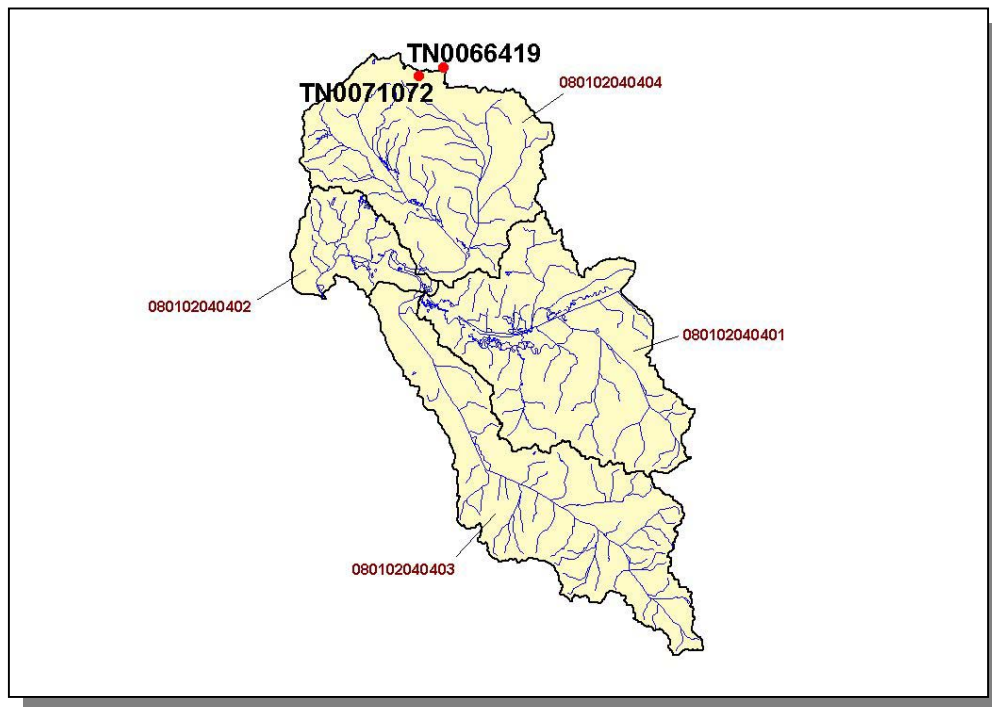


Figure 4-44. Location of Active Mining Sites in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

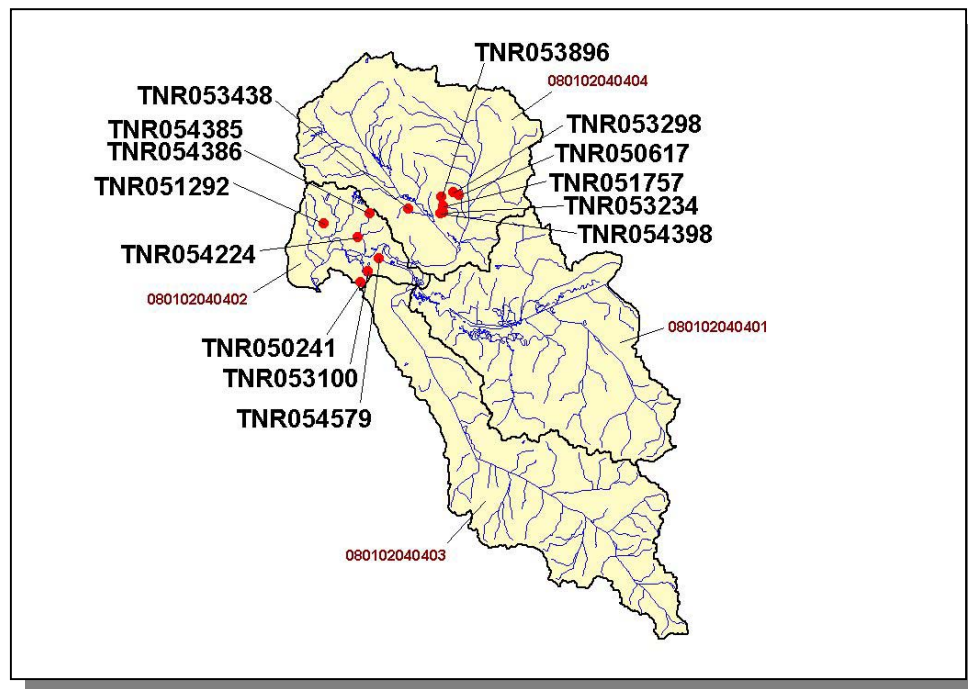


Figure 4-45. Location of TMSP Facilities in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

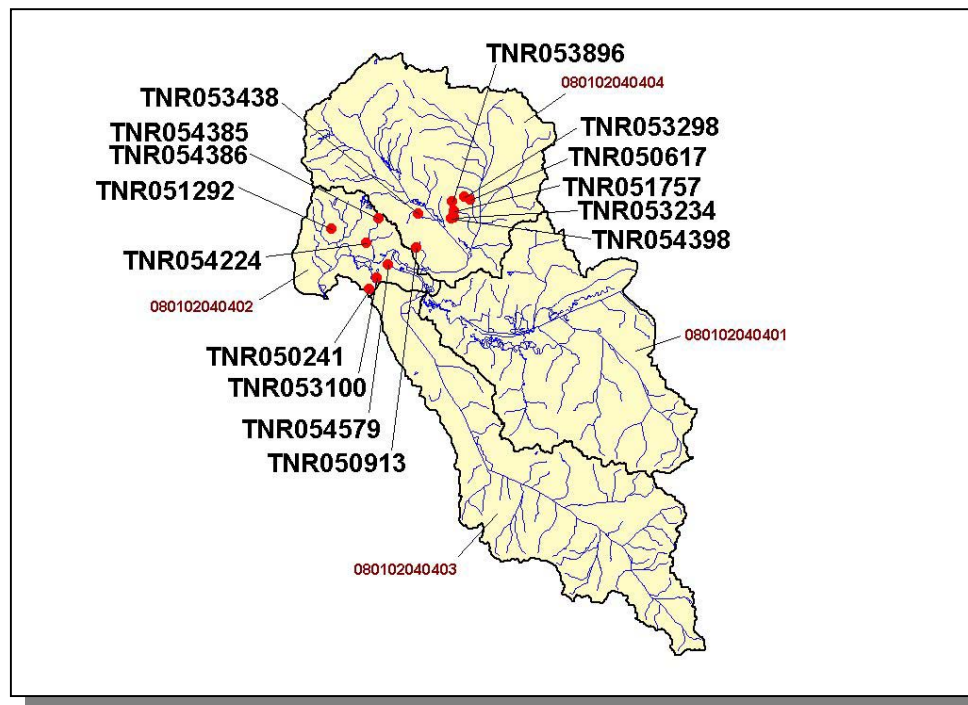


Figure 4-46. Location of ARAP Sites (Individual Permits) in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There are four NPDES facilities discharging to water bodies listed on the 1998 303(d) list in Subwatershed 0801020404:

- TN0000027 (Heckethorn Manufacturing) discharges to North Fork Forked Deer River @ RM 1.3
- TN0000221 (PolyOne Elastomers) discharges to an unnamed trib to North Fork Forked Deer River @ RM 6.2
- TN0064017 (Dr. Pepper/Pepsi-Cola Bottling Co.) discharges to an unnamed trib to Pond Creek @ RM 1.2
- TN0072966 (Trunkline Gas Co.) discharges to an unnamed trib to Nash Creek @ RM 3.0

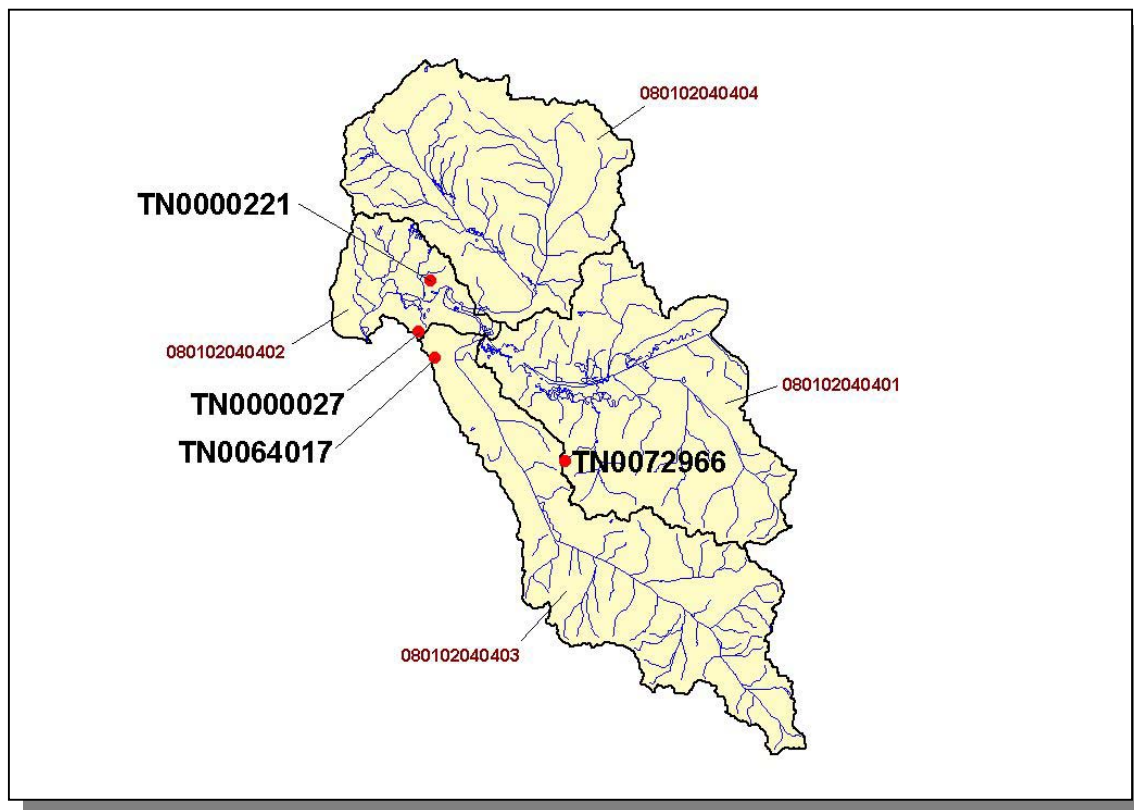


Figure 4-47. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 0801020404. Subwatershed 080102040401, 080102040402, 080102040403, and 080102040404 boundaries are shown for reference. The names of facilities are provided in NFFD-Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0000027	0.00	0.00	0.00	0.00	0.14000
TN0000221				0.00	0.04300
TN0064017					0.03600
TN0072966			0.00		0.02500

Table 4-29. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020404. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	TSS	BOD ₅	COD	pH	Zn	OIL and GREASE	NH ₃
TN0000221	X	X	X	X	X	X	X

Table 4-30. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020404. TSS, Total Suspended Solids; BOD₅, Biochemical Oxygen Demand (5-Day); COD, Chemical Oxygen Demand.

PERMIT #	pH	PCB	TRC	OIL and GREASE	TSS
TN0000027	X		X	X	
TN0064017	X		X		X
TN0072966	X	X		X	X

Table 4-31. Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020404.

4.2.D.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Milk Cow	Cattle	Chickens	Chickens Sold	Hogs	Sheep
807	2	6,679	7	0	630	9

Table 4-32. Summary of Livestock Count Estimates in Subwatershed 0801020404. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Crockett	15.1	15.1	0.3	1.6
Dyer	40.4	40.4	0.8	2.8
Total	55.5	55.5	1.1	4.4

Table 4-33. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0801020404.

CROPS	TONS/ACRE/YEAR
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Corn (Row Crops)	6.30
Soybeans (Row Crops)	8.09
Cotton (Row Crops)	7.59
Sorghum (Row Crops)	5.90
Wheat (Close Grown Cropland)	3.88
Oats (Close Grown Cropland)	3.34
Grass (Hayland)	0.19
Grass (Pastureland)	1.39
Grass, Forbs, Legumes (Mixed Pasture)	0.32
Conservation Reserve Program Land	0.45
Other Land in Farms	0.15
Other Cropland not Planted	1.36
Farmsteads and Ranch Headquarters	0.95

Table 4-34. Annual Soil Loss in Subwatershed 0801020404.